Name of Work :IMPROVEMENTS TO ROADS AND DRAINS AT TARAYANAGARANAGARA IN WARD NO.14, BAGALAGUNTE, DASARAHALLI-SUB-DIVISION

DASARAHALLI DIVISION	T DASARAHALLI SUB DIVISION
Estimate Cost:-99.00 Lakhs,	**JOB CODE: 014-20-000017**

Head of Account:- P-3727 SC-SP/TSP MAUKYAMANTRIGALA NAVA BENGALURU YOJANE

Agency:-Sri M/S NANDINI ENTERPRISES,#1504, 4TH C MAIN, 2ND STAGE MAHALAXMIPURAM, BANGALORE.

Agreement No:- : :EE/DD/AGR/521/2019-20 Date-22-01-2020

DETAILED MEASUREMENTS

Recorded on:- 11/3/20

Pre measurements

BOQ Item No	Description Of item of work	Nos		Measurements: Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	DISMANTLING OF DRAIN SLAB								
		1	1	75.00	0.90	0.10	6.750		
					Total Qty		6.750	6.750	Cum
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	EXCAVATION FOR KERB								
	ROAD-1-BS	2	1	60.00	0.20	0.10	2.400		
		2	1	41.00	0.20	0.10	1.640		
	ROAD-2-LS	1	1	121.00	0.20	0.10	2.420		
	ROAD-2-RS	1	1	41.00	0.20	0.10	0.820		
		1	1	151.00	0.20	0.10	3.020		
	ROAD-3 BS	2	1	49.00	0.20	0.10	1.960		
	ROAD 4 START POINT RS	1	1	6.70	0.20	0.10	0.134		
	ROAD-7 LS	1	1	28.70	0.20	0.10	0.574		
	ROAD-7 RS	1	1	34.00	0.20	0.10	0.680		
	ROAD-8 RS	1	1	48.00	0.20	0.10	0.960		
	ROAD-8 LS	1	1	38.00	0.20	0.10	0.760		
	ROAD-9-LS	1	1	47.00	0.20	0.10	0.940		
	DESILTING OF CULVERT								
		1	1	6.50	1.20	0.45	3.510		
	DESILTING OF DRAIN								
	ROAD-2 LS	1	1	121.00	0.60	0.50	36.300		
	ROAD-2 RS	1	1	151.00	0.60	0.50	45.300		
	ROAD-3-BS	2	1	49.00	0.60	0.50	29.400		

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BOQ No	Description Of item of work	Nos		Measurements Length	Breath		Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7		8	9	10	11
	EXCAVATION FOR NEW DRAIN									
	ROAD-3-BS	1	1	49.00	0.90		0.90	39.690		
	ROAD-7 LS	1	1	28.70	0.90		0.90	23.247		
	ROAD-7 RS	1	1	34.00	0.90		0.90	27.540		
	ROAD-8 RS	1	1	48.00	0.90		0.90	38.880		
	ROAD-8 LS	1	1	3.00	0.90		0.90	2.430		
	RWH									
		11	1	0.31	1.80			6.138		
				Total Qty				268.743	268.743	Cum
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1. 00 km and complete as per specifications. MORTH Specification No.301. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
	ROAD-10BWSSB CUT PORTION	1		34.00	1.50	+ 1.50 / 2	0.275	14.025		
		1		32.00	1.50	+ 1.50 / 2	0.275	13.200		
		1		30.00	1.50	+ 1.50 / 2	0.275	12.375		
		1		30.00	1.50	+ 1.50 / 2	0.275	12.375		
		1		30.00	1.50	+ 1.50 / 2	0.275	12.375		
		1		35.00	1.50	+ 1.50 / 2	0.275	14.438		
		1		42.00	1.50	+ 1.50 / 2	0.275	17.325		
				20.00	1.50	+ 1.50 / 2	0.275	8.250		
	NEW ROAD FORMATION									
	ROAD-4	1		30.00	5.45	+ 5.20 / 2	0.375	59.906		
		1		14.00	5.20	+ 4.90 / 2	0.375	26.513		
	DEDUCTION DUE TO CD	-1		1.20	6.00	+ 6.00 / 2	0.375	-2.700		
	ROAD-5	1		30.00	4.50	+ 4.40 / 2	0.375	50.063		
		1		30.00	4.40	+ 4.15 / 2	0.375	48.094		
		1		15.00	4.15	+ 4.50 / 2	0.375	24.328		
	ROAD-8	1		26.00	6.60	+ 6.40 / 2	0.375	63.375		
		1		12.00	6.40	+ 5.90 / 2	0.375	27.675		
		1		3.30	5.50	+ 5.50 / 2	0.375	6.806		

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BOQ No	Description Of Item of work	Nos	Measurements: Length	Breath			Depth	Sub Qty	Total Qty	Unit
1	3	4	6	7			8	9	10	11
	ROAD-11	1	15.00	5.80	+	4.70	0.375	29.531		
				2						
		1	30.00	4.70	+	4.50	0.375	51.750		
				2						
		1	30.00	4.50	+	4.15	0.375	48.656		
				2						
		1	30.00	4.15	+	4.60	0.375	49.219		
				2						
		1	30.00	4.60	+	3.80	0.375	47.250		
				2						
	DEDUCTION DUE TO CD	-1	1.20	5.00	+	5.00	0.375	-2.250		
				2						
			Total Qty(UPTO 125% OF TQ=125%*612.33=765.412CUM]					632.578	632.578	Cum
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.MORTH Specification No. 202. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
	ROAD-1	1	30.00	4.80	+	4.30	0.150	20.475		
				2						
		1	30.00	4.30	+	3.55	0.150	17.663		
				2						
		1	41.00	3.55	+	3.80	0.150	22.601		
				2						
	ROAD-12	1	10.80	4.50	+	4.90	0.150	7.614		
				2						
	ROAD-13	1	30.00	3.00	+	3.10	0.150	13.725		
				2						
		1	10.00	3.10	+	3.00	0.150	4.575		
				2						
			Total Qty					86.653	86.653	Cum
23	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
	ROAD-1	2 1	100.00					200.000		
	ROAD-2	1 1	75.00					75.000		
			Total Qty					275.000	275.000	M
26	KSRRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications MORTH Specification No. 301. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
	QTY VIDE I NO 2 , 3							901.321		
			Total Qty					901.321	901.321	Cum
27	KSRRB M-100-1 Loading and Unloading of Stone Boulder / Stone aggregate / Sand Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH -100 / Chapter 1, All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
	QTY VIDE I NO 1 , 10,11,23							6.750		

Checked at site
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BOQ Item No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
				Total Qty			6.750	6.750	Cum
28	KSRRB M100-4.1. Cost of haulage Excluding Loading and Unloading MORTH-100/Chapter 1 case-I surface road . All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	QTY VIDE I NO 26+27						908.071		
				Total Qty			908.071	908.071	Cum
4	KSRB 4-1.7: Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per Specification No. KBS 4.1, 4.2								
	EXCAVATION FOR KERB								
	ROAD-1-BS	2	1	60.00	0.20	0.10	2.400		
		2	1	41.00	0.20	0.10	1.640		
	ROAD-2-LS	1	1	121.00	0.20	0.10	2.420		
	ROAD-2-RS	1	1	151.00	0.20	0.10	3.020		
	ROAD-3 BS	2	1	49.00	0.20	0.10	1.960		
	ROAD 4 START POINT RS	1	1	6.70	0.20	0.10	0.134		
	ROAD-7 LS	1	1	28.70	0.20	0.10	0.574		
	ROAD-7 RS	1	1	34.00	0.20	0.10	0.680		
	ROAD-8 RS	1	1	48.00	0.20	0.10	0.960		
	ROAD-8 LS	1	1	38.00	0.20	0.10	0.760		
	ROAD-8 LS	1	1	47.00	0.20	0.10	0.940		
	EXCAVATION FOR NEW DRAIN								
	ROAD-3-BS	2	1	49.00	0.90	0.15	13.230		
	ROAD-7 LS	1	1	28.70	0.90	0.15	3.875		
	ROAD-7 RS	1	1	34.00	0.90	0.20	6.120		
	ROAD-8 RS	1	1	48.00	0.90	0.15	6.480		
	Total Qty(UPTO 125% OF TQ=125%*44.28=55.35CUM)						45.193	45.193	Cum
6	KSRB 4-2.2: Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 (Pno218/28.8.2)								

SL NO	PARTICULARS	NO	LENGTH	CONSTANT	QTY			
	ROAD-3-BS							
1	VERTICAL U BAR	820	2.11	0.620	1072.724			
2	STRAIGHT BAR	28	49.00	0.390	535.080			
	ROAD-7 LS							
1	VERTICAL U BAR	192	2.11	0.620	251.174			
2	STRAIGHT BAR	14	28.70	0.390	156.702			
	ROAD-7 RS							
1	VERTICAL U BAR	227	2.11	0.620	296.961			
2	STRAIGHT BAR	14	34.00	0.390	185.640			
	ROAD-8 RS							
1	VERTICAL U BAR	320	2.11	0.620	418.624			

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MOQ Item No	Description Of item of work	Nos		Measurements						
				Length	Breath		Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7		8	9	10	11
2	STRAIGHT BAR			14	48.00	0.390	262.080			
	TOTAL QTY IN KGS						3178.986			
	TOTAL QTY IN TONNES						3.179			
	TOTAL QTY IN TONNES						3.179	3.179	3.179	TONNE

Assistant Engineer-
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4/3/20

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Assistant Executive Engineer
I Dasarahalli Sub- Division
BBMP
Bangalore-560073

BOQ No	Description Of Item of work	Nos		Measurements: Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
	surement continued on:-	12	3	20					
5	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. I) Upto 5 m height.								
	CC DRAIN-RAFT								
	ROAD-3-BS	2	1	49.00	0.90	0.15	13.230		
	ROAD-7 LS	1	1	28.70	0.90	0.15	3.875		
	ROAD-7 RS	1	1	34.00	0.90	0.15	4.590		
	ROAD-8 RS	1	1	48.00	0.90	0.15	6.480		
				Total Qty			28.175	28.175	Cum
11	KSRRB 300-58. Providing kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	ROAD FORMATION								
	ROAD-1	1		30.00	4.80 + 4.30 / 2		136.500		
		1		30.00	4.30 + 3.55 / 2		117.750		
		1		41.00	3.55 + 3.80 / 2		150.675		
	ROAD-12	1		10.80	4.50 + 4.90 / 2		50.760		
	ROAD-13	1		30.00	3.00 + 3.10 / 2		91.500		
		1		10.00	3.10 + 3.00 / 2		30.500		
				Total Qty			577.685	577.685	Sqm
12	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	ROAD FORMATION								
	ROAD-1	1		30.00	4.80 + 4.30 / 2		136.500		
		1		30.00	4.30 + 3.55 / 2		117.750		
		1		41.00	3.55 + 3.80 / 2		150.675		
	ROAD-12	1		10.80	4.50 + 4.90 / 2		50.760		
	ROAD-13	1		30.00	3.00 + 3.10 / 2		91.500		
		1		10.00	3.10 + 3.00 / 2		30.500		
				Total Qty			577.685	577.685	Sqm
24	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								

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Q No	Description Of Item of work	Nos		Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
	3	4	5	6	7	8	9	10	11
	KERB STONES								
				Length	÷ 0.45		NO OF KERB STONE		
	ROAD-1	1	1	101.00	224.00		224.000		
	ROAD-2 LS	1	1	121.00	269.00		269.000		
	ROAD-2 RS	1	1	151.00	336.00		336.000		
	ROAD-3 BS	2	1	49.00	218.00		218.000		
	ROAD-4 STARTING POINT	1	1	6.70	15.00		15.000		
	ROAD-7 LS	1	1	28.70	64.00		64.000		
	ROAD-7 RS	1	1	34.00	76.00		76.000		
	ROAD-8-RS	1	1	48.00	107.00		107.000		
	ROAD-8-LS	1	1	38.00	84.00		84.000		
	ROAD-9-LS	1	1	47.00	104.00		104.000		
	ROAD-13-BS	2	1	150.00	667.00		667.000		
				Total Qty			2164.000	2164.000	NO
29	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	RAIN WATER HARVESTING L=(3.142*0.63*0.63)/4=0.31								
	40 mm jelly	11	1	0.31		0.40	1.364		Cum
	20 mm jelly	11	1	0.31		0.40	1.364		Cum
	Course Sand	11	1	0.31		0.30	1.023		Cum
	Fine Sand	11	1	0.31		0.20	0.682		Cum
	12.5 mm chips	11	1	0.31		0.30	1.023		Cum
30	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	0.63 DIA HDPE PERFORATED PIPE								
		1	1	19.80			19.800		
				Total Qty			19.800	19.800	RMT
31	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.								
	RAIN WATER HARVESTING L=(3.142*0.63*0.63)/4=0.31								
		11	1	0.31		1	3.410		
				Total Qty			3.410	3.410	Sqm

Assistant Engineer-14

12/3/20

Assistant Engineer
T Dasarahalli Sub- Division
BBMP

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OQ No	Description Of item of work	Nos		Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
asurement continued on:-	14/02/20								
5	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height.								
	QTY VIDE PREMEASUREMENT RECORDED IN IN PNO						28.175		
	CC DRAIN-SIDE WALLS								
	ROAD-3-BS	2	2	49.00	0.60	0.15	17.640		
	ROAD-7 LS	1	2	28.70	0.60	0.15	5.166		
	ROAD-7 RS	1	2	34.00	0.60	0.15	6.120		
	ROAD-8 RS	1	2	48.00	0.60	0.15	8.640		
	Total Qty						65.741		
	Limiting Total Qty(UPTO 125% OF TQ=125%*50.40=63.00CUM)						63.000	63.000	Cum
13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	NEW ROAD FORMATION								
	ROAD-4	1	30.00	5.45 + 5.20 / 2		0.150	23.963		
		1	14.00	5.20 + 4.90 / 2		0.150	10.605		
	DEDUCTION DUE TO CD	-1	1.20	6.00 + 6.00 / 2		0.150	-1.080		
	ROAD-5	1	30.00	4.50 + 4.40 / 2		0.150	20.025		
		1	30.00	4.40 + 4.15 / 2		0.150	19.238		
		1	15.00	4.15 + 4.50 / 2		0.150	9.731		
	ROAD-8	1	26.00	6.60 + 6.40 / 2		0.150	25.350		
		1	12.00	6.40 + 5.90 / 2		0.150	11.070		
		1	3.30	5.50 + 5.50 / 2		0.150	2.723		
		1	15.00	5.80 + 4.70 / 2		0.150	11.813		
		1	30.00	4.70 + 4.50 / 2		0.150	20.700		
		1	30.00	4.50 + 4.15 / 2		0.150	19.463		
		1	30.00	4.15 + 4.60 / 2		0.150	19.688		
	Total Qty(UPTO 125% OF TQ=125%*159.90=198.75CUM)						193.286	193.286	Cum

Checked by the ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಜ.ಜ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು 560073

BOQ No	Description Of item of work	Nos		Measurements Length	Breath		Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7		8	9	10	11
14	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.									
	CC ROAD									
	ROAD-1	1	30.00	4.80	+	4.30	0.100	13.650		
					2					
		1	30.00	4.30	+	3.55	0.100	11.775		
					2					
		1	41.00	3.55	+	3.80	0.100	15.068		
					2					
	ROAD-12	1	10.80	4.50	+	4.90	0.100	5.076		
					2					
	ROAD-13	1	30.00	3.00	+	3.10	0.100	9.150		
					2					
		1	10.00	3.10	+	3.00	0.100	3.050		
					2					
				Total Qty				57.769	57.769	Cum

Checked table
ಸ.ಕಾ.ಅ.ಇ.
ಬಾಗಲಗುಂಟೆ

Assistant Engineer-14
14/03/20

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
Dasarahalli Sub Division
ಬಿ.ಬಿ.ಎಂ.ಪಿ
ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಜಿ.ಕೆ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು-560073
14/3

BOQ No	Description Of Item of work	Nos		Measurements Length	Breath	Depth	Sub Qty	Total Qty	Unit
1	3	4	5	6	7	8	9	10	11
Measurement continued on:-		16/03/20							
7	Removing and resetting of footpath slab. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	DRAIN								
	ROAD-2-LS	1	1	121.00	0.90		108.900		
	ROAD-2-RS	1	1	151.00	0.90		135.900		
	ROAD-10-RS	1	1	10.00	0.90		9.000		
				Total Qty			253.800	253.800	Sqm
8	KSRB 15.2.2 : Providing dry pointing 20 mm deep to stone slab with cement mortar 1:3, 20mm deep, after raking joints neatly lining, including cost of materials, labour, curing complete as per specifications. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	CC DRAIN								
	ROAD-2-LS	1	1	80.00	0.90		72.000		
				Total Qty			72.000	72.000	Sqm
9	Providing and fixing R.C.C. precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly, 20mm nominal/ down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in charges								
	CC DRAIN-RAFT								
	ROAD-2-BS	2	1	14.00	0.90		25.200		
	ROAD-3-BS	2	1	49.00	0.90		88.200		
	ROAD-7 LS	1	1	28.70	0.90		25.830		
	ROAD-7 RS	1	1	34.00	0.90		30.600		
	ROAD-8 RS	1	1	48.00	0.90		43.200		
				Total Qty			213.030	213.030	Sqm
15	KSRRB M400-17 : Providing, laying, spreading and compacting Crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406. All lead and lift complete as per specification and as per the directon of the engineer in charge of the site.								
	NEW ROAD FORMATION								
	ROAD-4	1	30.00	5.45	+ 5.20 / 2	0.225	35.944		
		1	14.00	5.20	+ 4.90 / 2	0.225	15.908		
	DEDUCTION DUE TO CD	-1	1.20	6.00	+ 6.00 / 2	0.225	-1.620		
	ROAD-5	1	30.00	4.50	+ 4.40 / 2	0.225	30.038		
		1	30.00	4.40	+ 4.15 / 2	0.225	28.856		
		1	15.00	4.15	+ 4.50 / 2	0.225	14.597		
	ROAD-8	1	26.00	6.60	+ 6.40 / 2	0.225	38.025		
		1	12.00	6.40	+ 5.90 / 2	0.225	16.605		

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತ
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